

Epsilon Placement Test

Solve.

1. $\frac{1}{2}$ of 24 = _____

2. $\frac{2}{3}$ of 18 = _____

3. $\frac{7}{8}$ of 64 = _____

Fill in the missing numbers in the numerators or denominators to make equivalent fractions.

4. $\frac{3}{4} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{16}$

5. $\frac{9}{10} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{36}{\quad}$

Compare the fractions and write the correct symbol in the oval.

6. $\frac{5}{7} \bigcirc \frac{3}{5}$

7. $\frac{4}{8} \bigcirc \frac{3}{6}$

8. $\frac{4}{8} \bigcirc \frac{2}{3}$

Solve.

$$9. \frac{3}{9} + \frac{5}{9} =$$

$$10. \frac{1}{2} + \frac{1}{4} + \frac{7}{8} =$$

$$11. \frac{4}{5} - \frac{1}{3} =$$

$$12. \frac{1}{3} \div \frac{1}{5} =$$

$$13. 3\frac{1}{3} \div \frac{5}{18} =$$

$$14. 3\frac{4}{5} \div 2\frac{7}{25} =$$

Solve.

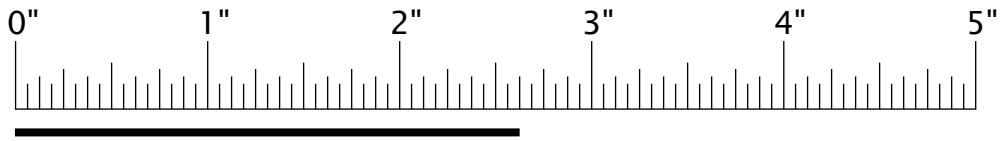
$$15. \begin{array}{r} 7\frac{1}{4} \\ -5\frac{3}{4} \\ \hline \end{array}$$

$$16. \begin{array}{r} 9\frac{2}{3} \\ +6\frac{5}{9} \\ \hline \end{array}$$

$$17. \begin{array}{r} 5\frac{1}{5} \\ -2\frac{5}{6} \\ \hline \end{array}$$

Write the length of the line.

18. _____ in



Solve for the unknown and check your work.

19. $7X + 9 = 44$

20. Check for #19

21. $\frac{3}{8}A - 8 = 13$

22. Check for #21

23. $\frac{5}{6}G + \frac{1}{6} = \frac{5}{12}$

24. Check for #23

Solve.

25. $\frac{5}{8} \times \frac{1}{3} \times \frac{3}{5} = \underline{\hspace{2cm}}$

26. $\frac{4}{5} \times 2\frac{3}{4} \times 3\frac{1}{3} = \underline{\hspace{2cm}}$

Write each fraction in hundredths. Then write it as a decimal and as a percent.

27. $\frac{4}{5} = \frac{\quad}{100} = \quad = \quad\%$

28. $\frac{1}{4} = \frac{\quad}{100} = \quad = \quad\%$

29. What is the GCF of 15 and 45?

30. What are the prime factors of 56?

31. Change $7\frac{2}{3}$ to an improper fraction.

32. Is 498 divisible by 9?

33. What is the approximate area of a circle with a radius of 21 feet?

34. What is the approximate circumference of a circle with a radius of 21 feet?